

CITY OF GOODYEAR

INSTALLATION OF GAS PIPING REQUIREMENTS

PERMITS

Permits for the installation of gas piping may be obtained by completing an application and submitting two (2) sets of required plans to the Community Development Department located at 190 N. Litchfield Rd. Goodyear, Arizona 85338, (623) 932-3004. The application shall be completed in full and shall be legible. Plans shall include all applicable information, as listed below, and shall be legible. **Incomplete and illegible applications and plans will not be accepted for review.**

PLAN SUBMITTAL REQUIREMENTS - Submit two (2) sets of site plans referencing the following information:

- ☐ Location and lengths of gas piping. Location and lengths of all existing gas piping and Btu rating of all existing appliances shall be required if the new installation affects the existing system.
- ☐ Btu rating for each gas appliance to be installed. Btu rating for all existing gas appliances shall be required if the new installation affects the existing system.
- ☐ Size of gas piping (main and branch lines). Size of all existing gas piping shall be required if the new installation affects the existing system.
- ☐ Specify type of material for gas piping (metallic, plastic, etc.). Certain types of gas piping, such as CSST and PE, require installation by a certified installer. An electrically continuous insulated number 18 tracer wire shall be attached to underground plastic gas piping and shall terminate above grade at each end.
- ☐ If applicable, reference the depth of the gas piping twelve (12) inches of earth cover for metallic piping and eighteen (18) inches of earth cover for plastic piping). Exposed gas piping shall be kept at least six (6) inches above grade.
- ☐ An approved shut-off valve is required within three (3) feet of each appliance and shall be installed ahead of the union.
- ☐ Risers shall be metallic and shall be wrapped or coated to a point at least six (6) inches above grade. When the risers connect underground to plastic pipe, the underground horizontal metallic portion of the riser shall extend at least thirty (30) inches before connecting to the plastic pipe by means of an approved transition fitting or adapter.
- ☐ Specify if the gas system is medium pressure. Indicate the location of the approved regulator.
- ☐ Gas piping installed under concrete shall comply with the following:
 - Gas piping shall **NOT** be installed under concrete in areas that can easily be covered in the future, such as patio slabs.
 - Gas piping installed under concrete that is adjacent to a structure shall be sleeved with rigid plastic casing (minimum schedule 40) a minimum of one-half (1/2) inch larger than the outside diameter of the required gas piping. The conduit sleeve shall extend to a point at least twelve (12) inches beyond any area where it is required to be installed or to the outside wall of a building. The outer ends shall not be sealed. Refer to installation standards for special gas piping systems, such as polyethylene and corrugated stainless steel tubing. This method of gas piping installation will permit the installation of a covered patio over the concrete.
 - Gas piping shall be permitted to be installed under concrete where located in an isolated area. (ground surrounding all sides of concrete area)

INSPECTIONS

An inspection may be requested by calling (623) 932-3494 by 3:00 PM the business day prior to inspection. Please be prepared to give the inspection code and permit number; for example, inspection code 50, permit number 02-1100. Inspections requested the previous business day must be ready for inspection the next business day by 7:00 A.M.

The city approved plot plan and permit shall be available at the job site. Failure to have these plans available to the Inspector, failure to have the gas piping ready for the requested inspection, or failure to provide access to the property due to locked gates (access to the house will also be required for certain gas piping installations), or unrestrained dogs will result in a \$100 reinspection fee being assessed, unless our department is contacted at (623) 932-3494 prior to the Inspector arriving at the jobsite.

ROUGH PIPING INSPECTION

☐ Inspection made after all gas piping is installed and before such piping has been covered or concealed, and prior to any appliance being connected to the gas piping.

FINAL PIPING INSPECTION

☐ Inspection made after all gas piping is installed and after all portions which are to be covered or concealed are so concealed and before appliances and shut-off valves are connected to the piping.

☐ The gas piping shall stand an air pressure test, provided by the owner or contractor, of not less than ten (10) pounds per square inch for a minimum time of fifteen (15) minutes. Medium pressure gas systems shall be tested at a pressure not less than sixty (60) pounds per square inch for a minimum time of thirty (30) minutes. The entire length of the new gas piping, including flex pipe and valves shall be tested. Existing gas piping may also need to be tested depending on the installation of the new gas pipe. The gas piping is required to be under test pressure at the time the inspector arrives at the jobsite.

NOTE: Minor installations, such as gas piping to pool heaters, BBQ's, etc..., may require only one inspection, including the required gas test, to verify the installation prior to covering or concealing the pipe.